



UNITED STATES DEPARTMENT OF COMMERC United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,751	10/23/2003	Charles N. Archie	FIS920030158	2750
BLDG 300-482			EXAMINER	
			STOCK JR, GORDON J	
			ART UNIT	PAPER NUMBER
				•
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Ossi Andina Cara	10/605,751	ARCHIE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Gordon J. Stock	2877				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	vith the correspondence ac	idress			
A SHORTENED STATUTORY PERIOD FOR REPOWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIATION 1.136(a). In no event, however, may a code will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this of the BANDONED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 08	January 2007.					
	nis action is non-final.					
3) Since this application is in condition for allow	vance except for formal mat	tters, prosecution as to the	e merits is			
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-12 and 19</u> is/are pending in the a	pplication.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12 and 19</u> is/are rejected.						
7) Claim(s)is/are objected to.						
8) Claim(s) are subject to restriction and	l/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami	ner.					
·	10)⊠ The drawing(s) filed on <u>25 <i>November</i> 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the	ne drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	ection is required if the drawing	g(s) is objected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form P	TO-152.			
Priority under 35 U.S.C. § 119		·				
12) ☐ Acknowledgment is made of a claim for foreignal ☐ All b) ☐ Some * c) ☐ None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority docume	ents have been received.	•				
2. Certified copies of the priority docume	ents have been received in a	Application No				
3. Copies of the certified copies of the pr	riority documents have been	n received in this National	Stage			
application from the International Bure						
* See the attached detailed Office action for a li	st of the certified copies no	t received.				
• • • • • • • • • • • • • • • • • • •						
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 		(s)/Mail Date Informal Patent Application				

DETAILED ACTION

1. The Amendment received on January 8, 2007 has been entered into the record.

Drawings and Specification

- 2. The drawings and specification are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 66 and 68 of Fig. 8. In addition, in Fig. 2b, '212' should read –222-. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the 'substrate' including 'other features each feature having at least one of a microelectronic function or a microelectromechanical function' of claims 1 and 11 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing

Art Unit: 2877

sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. The Drawings received on January 8, 2007 are accepted by the Examiner.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 6. Claims 1-12 and 19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Specifically, claims 1 and 11 disclose 'feature is greater than or equal to about 50;' however, the specification solely discloses 'greater than 50 (applicant's disclosure:

Application/Control Number: 10/605,751

Art Unit: 2877

lines 20-22 of paragraph 0061). The ratio of a length to said width of each elongated feature is equal to about 50 was not reasonably conveyed in applicant's disclosure. Claims 2-10, 12, and 19 are rejected for being dependent upon a rejected base claim.

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 1-12 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As for claims 1 and 11, the phrase 'each having at least one of microelectronic function' of line 2 of both claims is indefinite, for it is unclear as to what is being referred to by 'each,' the substrate, the scatterometry target, other features, or all three. Examiner will be interpreting 'each' as ---each other feature---. In addition, for claim 1, 'said features' of line 5 and 'each feature' of line 7 are indefinite, for it is unclear as to what feature is being referred 'other features' or 'elongated features.' Examiner will be interpreting 'said features' as ---said elongated features--- and 'each feature' as -each elongated feature--. Also for claim 11, 'said features' of line 5 and 'each feature' of line 10 are indefinite, for it is unclear as to what feature is being referred 'other features' or 'elongated features.' Examiner will be interpreting 'said features' as ---said elongated features--- and 'each feature' as --each elongated feature--. Claims 2-10, 12, and 19 are rejected for being dependent upon a rejected base claim.

Allowable Subject Matter

9. Claims 1-12 and 19 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 1st and 2nd paragraphs, set forth in this Office action.

Art Unit: 2877

As to claim 1, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a substrate including a scatterometry target and other features each other feature having at least one of a microelectronic function or a microelectromechanical function said scatterometry target 'wherein a ratio of a length of said scatterometry target in said first direction to said width of each elongated feature is greater than 50' with the particular plurality of stress-relief features, in combination with the rest of the limitations of claims 1-10, and 19.

As to claim 11, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a substrate including a scatterometry target and other features each other feature having at least one of a microelectronic function or a microelectromechanical function said scatterometry target 'wherein a ratio of a length of said scatterometry target in said first direction to said width of each elongated feature is greater than 50' with jogs disposed at a plurality of locations along said length and said width of said elongated features mimicking a width of said other features, in combination with the rest of the limitations of claims 11-12.

Response to Arguments

10. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection. However, Examiner would like to acknowledge that the remarks in regards to the previous rejections under 35 U.S.C. 103(a) were persuasive. See pages 8-9 of Remarks filed January 8, 2007. Due to the persuasiveness of the arguments and due to the amendment to the claims the previous rejections under 35 U.S.C. 103(a) have been withdrawn. In addition, on page 9 of Remarks that all amendments to the claims finds support in the disclosure. Examiner disagrees. See new rejection under 35 U.S.C. 112 first paragraph above. In addition, on page 8 that the specification and drawings have been amended to overcome all

Page 6

Art Unit: 2877

objections. Examiner disagrees. See objections to Figs. 8 and 2b above as previously objected to (see 20060928).

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure:

U.S. Patent 4,632,557 to Thompson

U.S. Patent 5,528,372 to Kawashima

U.S. Patent 6,245,584 to Marinaro et al.

US 2004/0004726 to Sezginer et al.

U.S. Patent 6,822,260 to Nariman et al.

U.S. Patent 7,031,848 to Opsal et al.

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Application/Control Number: 10/605,751

Art Unit: 2877

Fax/Telephone Numbers

If the applicant wishes to send a fax dealing with either a proposed amendment or a discussion with a phone interview, then the fax should:

- 1) Contain either a statement "DRAFT" or "PROPOSED AMENDMENT" on the fax cover sheet; and
 - 2) Should be unsigned by the attorney or agent.

This will ensure that it will not be entered into the case and will be forwarded to the examiner as quickly as possible.

Papers related to the application may be submitted to Group 2800 by Fax transmission. Papers should be faxed to Group 2800 via the PTO Fax machine located in Crystal Plaza 4. The form of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Machine number is: (571) 273-8300

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gordon J. Stock whose telephone number is (571) 272-2431.

The examiner can normally be reached on Monday-Friday, 10:00 a.m. - 6:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr., can be reached at 571-272-2800 ext 77.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private Pair system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gs

February 1, 2007

Page 8

Gregory J. Toatley, Jr.

Supervisory Patent Examiner

Art Unit 2877